

#### ABSTRACT OF THE DISCLOSURE

In a color imaging apparatus, a problem of occupying a transmitting line can be avoided without changing color resolution and angle of view in the case of connecting to the external unit. The present invention provides converting means for converting a first digital component signal S1 which has the data rate of luminance data "Y" and first and second chroma data "U" and "V" being  $K \times N:N:N$  into a second digital component signal S3 which has the same angle of view as said first digital component signal and has the data rate of the luminance data "Y" and the first and second chroma data "U" and "V" being  $K \times N/M:N:N$ , thereby a second digital component signal S3 having a small amount of data can be generated without changing the angle of view and the color resolution as against the first digital component signal. Therefore, if such second digital component signal S3 is output to the external unit through the transmitting line, the problem of occupying the transmitting line can be avoided without changing the angle of view and the color resolution.